

REMOVAL OF HALON 1301 CYLINDER FROM THE RADAR DATA ACQUISITION (RDA) SHELTER

DOPPLER METEOROLOGICAL RADAR WSR-88D

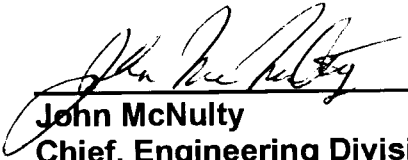


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NWS APPROVAL:

 _____ Date 3/16/00
John McNulty
Chief, Engineering Division

DoD APPROVAL:

BY ORDER OF THE SECRETARY OF THE AIR FORCE

MICHAEL E. RYAN, General, USAF
Chief of Staff

 _____ Date 3/27/00
Edward L. Berkowitz, Chief
System Support Branch
Operational Support Facility
TOMA

1. SUBJECT

Removal of Halon 1301 cylinder from the Radar Data Acquisition (RDA) shelter.

2. PURPOSE

This document provides instructions to remove the Halon 1301 cylinder from the RDA equipment shelter for environmental reasons. The authority for this document is Operational Support Facility (OSF) Engineering Change Proposal (ECP) F0128, Halon Removal.

For additional information concerning this document, contact the Operational Support Facility, Hotline, Norman, Oklahoma; phone number: (800) 643-3363 or (405) 366-2980 or by email at Hotline@osf.noaa.gov. An electronic copy of this document can be found at the following internet address:

www.osf.noaa.gov/ssb/sysdoc/techman/tmlinks.htm

3. SITES AFFECTED

See [ATTACHMENT 2](#).

4. ESTIMATED COMPLETION DATE

This modification must be completed no later than 60 days after receipt of this document and kit.

5. EQUIPMENT AFFECTED

Radar Data Acquisition (RDA).

6. SPARES AFFECTED

Not applicable.

7. MODIFICATION ACCOMPLISHED BY

Site electronic technicians will accomplish this modification. Two technicians are required to perform these procedures.

8. MATERIAL REQUIRED.

Nomenclature	Part Number	NSN	Qty
68.1 ohms 1/2 W resistor	RLR20C68R1FS	5905-01-178-8949	1
Paint ^a	15854	8010-01-428-3690	1 gal

a. Will not be shipped to site. Paint was provided to each site in a shelter repair kit upon initial installation of the RDA shelter.

9. SOURCE OF MATERIALS

Kits are requisitioned by the OSF Logistics Section and shipped at no cost to the site.

10. SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED

Not applicable.

11. TIME AND PERSONNEL REQUIRED

Work Phases	Work-hours
Unpacking	0.0
Disassembly	0.25
Installation	0.50
Assembly	0.0
Operational Check	0.25
Total Work-hours	1.00

12. DOCUMENTS AFFECTED

Not applicable.

13. VERIFICATION STATEMENT

This modification was successfully installed at WSFO Tulsa, OK.

14. DISPOSITION OF REMOVED AND REPLACED PARTS/MATERIALS

Many Air Force bases and local national fire protection system companies readily accept or purchase Halon for recycling. Contact your local national fire protection system company for the removal of the Halon bottle. Maintain a copy of the receipt from the national fire protection system company, consisting of the companies phone number and address, on site as a permanent record. If unable to locate such a company, contact the OSF at (405) 366-6540 ext 3246. The remaining parts (mounting brackets, discharge pipe etc., shall be left attached to the wall.

15. PROCEDURES

See [ATTACHMENT 1](#).

16. FAA DISTRIBUTION

Not applicable.

17. CHANGES TO TABLE OF CONTENTS (FAA)

Not applicable.

18. RECOMMENDATIONS FOR CHANGES (FAA)

Not applicable.

19. REPORTING INSTRUCTIONS

a. NWS

Report completed modification on WS Form A-26, Engineering Management Reporting System Maintenance Record, according to instructions in EHB-4, Part 2, using reporting code RDA. Also, record the modification number in block 17(a) as 55 (see [ATTACHMENT 4](#) for a completed sample of WS Form A-26).

b. DoD

Update the AFTO Form 95 to show TCTO compliance. Report TCTO compliance in accordance with TO 00-20-2, Table 3-10, Rule 9.

NWS: EHB-6, Modification Note 55
DoD: TO 31P1-4-108-584

c. DoD and NWS

Complete [ATTACHMENT 3](#) and fax, mail, or e-mail information to:

- (1) Mail Address: System Support Branch, Logistics Section
 Operational Support Facility
 3200 Marshall Ave., Suite 101
 Norman, Oklahoma 73072-8028
- (2) Fax Number: (405) 366-6553
 ATTN: Logistics Section
- (3) E-mail Address: Logistics@osf.noaa.gov

ATTACHMENT 1

PROCEDURE FOR REMOVING HALON 1301 CYLINDER

TOOLS REQUIRED

Pipe wrench (adjustable to 2 ½ inches)
10 inch adjustable wrench
9/16 inch combination wrench
Screwdriver set, slotted

WARNING

Failure to turn the power off can cause damage to equipment and serious injury or death.

1. On the RDA Main Power Distribution Panel UD7A2, set the Halon panel circuit breaker CB20 to the **OFF** position. Verify the message EQUIPMENT SHELTER HALON/DETECT SYS FAULT appears at the RDA Man Machine Interface (MMI).
2. Using an adjustable wrench, remove the top locking nut on the Solenoid Pilot Valve Assembly. (See [Figure 1](#))
3. Carefully lift the Solenoid Pilot Valve Assembly off of the Pressure Gauge so as not to loose any parts.
4. Using a tiewrap, secure all of the Solenoid Pilot Valve Assembly together.
5. Using a pipe wrench, disconnect the Angled Discharge Pipe from the Discharge Head Assembly, then loosen the coupling nut at the top portion of the Angled Discharge Pipe. Swing the Angled Discharge Pipe away from the Discharge Head Assembly (See [Figure 1](#).)

WARNINGS

The Halon bottle weighs over 120 pounds and requires a two person lift or a dolly to carry it.

Use care when handling the bottle to prevent the discharge valve from being damaged.

6. Using a 9/16 inch combination wrench, remove the fasteners from around the Halon Cylinder and remove the Halon Cylinder.

ATTACHMENT 1 (Continued)

PROCEDURE FOR REMOVING HALON 1301 CYLINDER

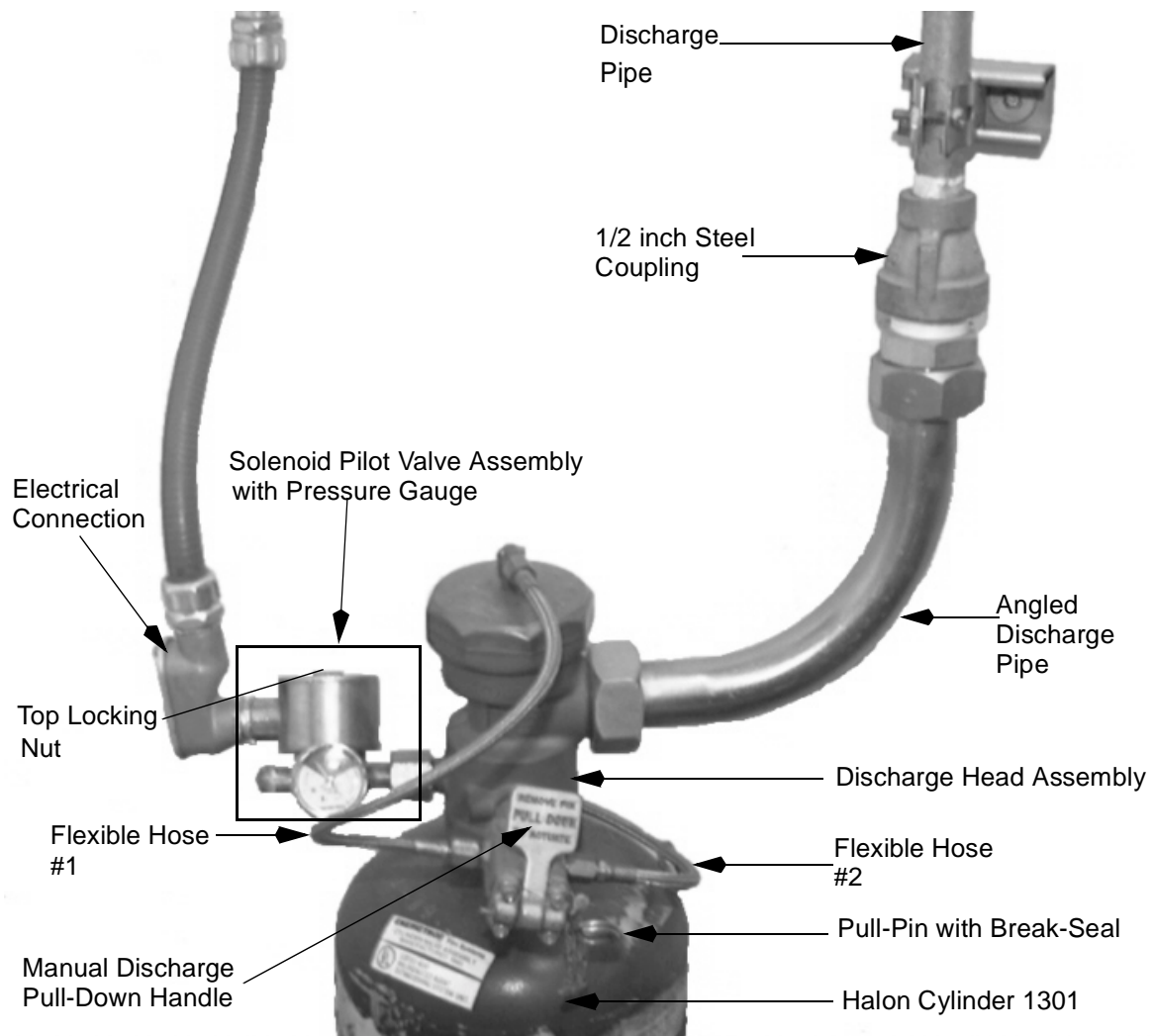


Figure 1 Halon 1301 Cylinder

ATTACHMENT 1 (Continued)

PROCEDURE FOR REMOVING HALON 1301 CYLINDER

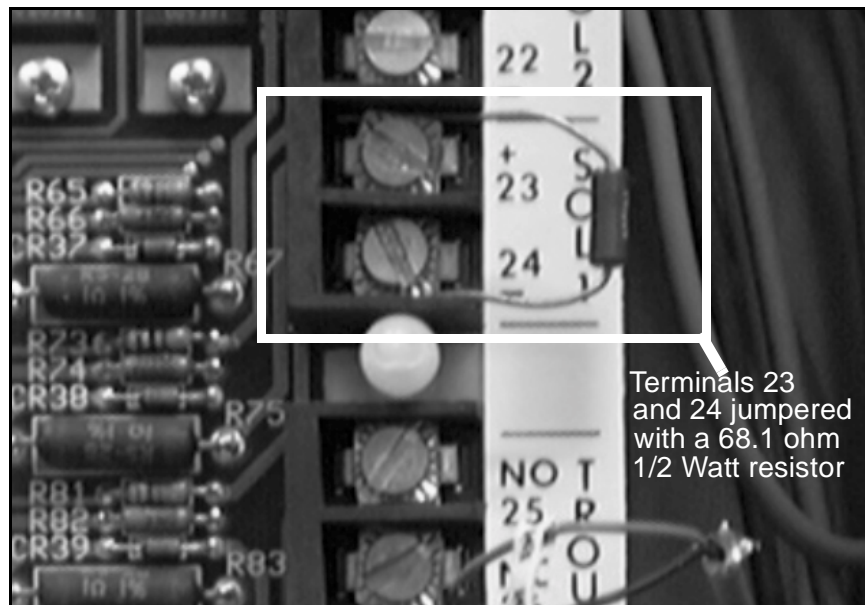


Figure 2 Mico 1-EV Control Panel Jumper

ATTACHMENT 1 (Continued)**PROCEDURE FOR REMOVING HALON 1301 CYLINDER**

7. Inside the Micro 1-EV control panel, disconnect, isolate and tie back the two solenoid leads on terminals 23 and 24, which are labeled SOL 1. (See [Figure 2](#).)
8. Install the 68.1 ohm, ½ watt resistor (5905-01-178-8949) across terminals 23 and 24. (See [Figure 2](#).)
9. Restore power at the RDA Main Power Distribution Panel, by setting circuit breaker CB20 to the **ON** position.

NOTES

In the following procedure, if the **SAFE** message comes up before finishing the steps below, start the program over and make the entries with minimum pauses between steps.

At step [10.a.](#), if **PROG** is not displayed, press the master reset button and restart step [10](#).

At step [10.f.](#) the number displayed is the pre-set time. Use the arrow up and down keys to set the displayed time to 0 (sec LED is illuminated).

10. Set the pre-discharge timer for 0 seconds by pressing the following keys at the Halon System control panel keypad:

<u>ACTION</u>	<u>RESPONSE</u>
a. Program	PROG
b. Pre-Dis Time Sol 1	----
c. Dis Time Sol 3	---
d. Pre-Dis Time Sol 3	--
e. Alarm 2 Silence	-
f. Alarm 1 Silence	(pre-set time is displayed)
g. Enter	SAFE

NOTES

In the following procedure, if the **SAFE** message comes up before finishing the steps, start the program over and make the entries with minimum pauses between steps.

At step [11.f.](#) the number displayed is the pre-set time. Use the arrow up and down keys to set the displayed time to 0 (min LED is illuminated).

ATTACHMENT 1 (Continued)

PROCEDURE FOR REMOVING HALON 1301 CYLINDER

11. Set the discharge timer for 0 minutes by pressing the following keys at the Halon System control panel keypad:

<u>ACTION</u>	<u>RESPONSE</u>
a. Program	PROG
b. Dis Time Sol 1	----
c. Dis Time Sol 3	---
d. Pre-Dis Time Sol 3	--
e. Alarm 2 Silence	-
f. Alarm 1 Silence	(pre-set time is displayed)
g. Enter	SAFE

12. If the message `EQUIPMENT SHELTER HALON/DETECT SYS FAULT` message is still present at the RDA MMI, return to the Halon System control panel, remove the front cover and press the master reset button to remove the fault message from the RDA MMI.
13. Perform the following steps to remove the word **HALON** on the interior of the shelter door and exterior wall of the shelter:
- Locate the paint (NSN 8010-01-428-3690), previously provided in the shelter repair kit, to perform the following steps. If the paint cannot be found, use your standard supply procedures to order (1) one can of paint, or a locally purchased equivalent tan paint.
 - Paint over the sign, located on the outside of the RDA shelter, until the sign is completely covered. You may have to apply more than one coat of paint to completely cover the sign.
 - Using a standard slotted screwdriver, remove the (4) four screws holding the Halon sign to the interior of the shelter door. Dispose of sign in accordance with local procedures.
14. Inspect the fire indicator light on the outside of the shelter for the word **HALON**. Annotate on [ATTACHMENT 3](#) (Return Form) the results of the inspection.

NWS: EHB-6, Modification Note 55
DoD: TO 31P1-4-108-584

ATTACHMENT 2

EFFECTIVITY

NWS

<u>Site Name</u>	<u>SID</u>	<u>Org Code</u>
Eastern Region		
WSFO Sterling, VA	LWX	WN9931
Southern Region		
WSO Houston, TX	HGX	WP9935
WSO Melbourne, FL	MLB	WP9204
WSO Amarillo, TX	AMA	WP9363
WSFO Little Rock, AR	LZK	WP9340
WSO Tulsa, OK	INX	WP9356
WSFO Norman, OK	TLX	WP9921
WSFO Jackson, MS	JAN	WP9235
Central Region		
WSO Pleasant Hill, MO	EAX	WR9446
WSO Dodge City, KS	DDC	WR9451
WSO Goodland, KS	GLD	WR9465
WSFO St Louis, MO	LSX	WR9971
WSO Wichita, KS	ICT	WR9450

DoD

Altus AFB, OK	FDR	FE4419
Ft Drum, NY	TYX	FY4846
Maxwell AFB, AL	MXX	FE3300
Keesler AFB, MS MNTC TRNG	BIX	FE3010
Andersen AFB, GU	GUA	FE5240

NWS: EHB-6, Modification Note 55
DoD: TO 31P1-4-108-584

ATTACHMENT 2 (Continued)

EFFECTIVITY

<u>Site Name</u>	<u>SID</u>	<u>Org Code</u>
Ft Polk, LA	POE	FY4825
Eglin AFB, FL	EVX	FE2823
Dover AFB, DE	DOX	FE4497
Ft Hood, TX	GRK	FY4824

MISC

NRC Kansas City, MO	NRCM7	WG3300
NWSTC Kansas City, MO	TTCM7	WL0000

**NWS: Modification Note 55
DoD: TO 31P1-4-108-584**

ATTACHMENT 3

REMOVAL OF HALON 1301 CYLINDER

Site Name: _____

Site Identifier: _____

Total Time to complete this Modification Document: _____

Technician's Name(s): _____

Technician's Phone Number: _____

Inspection of Fire Indicator Light (Halon word): _____
Yes No

Date Completed: _____

Problem(s) Encountered:

Upon completion of this form, mail, fax, or e-mail this information to the OSF:

1. Mailing Address: System Support Branch, Logistics Section
WSR-88D Operational Support Facility
3200 Marshall Ave, Suite 101
Norman, OK 73072-8028
2. FAX Number: (405) 366-6553,
ATTN: Logistics Section
3. E-mail Address: Logistics@osf.noaa.gov

ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD				Document Number G 50237	
General Information		1. Open Date 04/ 01 / 00	Time 0900	2. Initials DKR	3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable
		4. Close Date 04 / 01 / 00	Time 1000		
5. Description REMOVED HALON 1301 CYLINDER FROM RDA SHELTER I.A.W MOD NOTE 55					
Equipment Information		6. Station ID LWX	7. Equipment Code RDA	8. Serial Number B90-10007-00	9. TM M
		10. AT M	11. How Mal. 999		
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="checkbox"/>	b. Logistics Delay <input type="checkbox"/>	c. All Other <input type="checkbox"/>	d. Logistics Delay <input type="checkbox"/>
		e. All Other 1:00			
13. Parts Failure Information					
a. Block #	ASN	b.	NSN	c. TM	d. AT
1					
2					
3					
4					
5					
14. Work Load Information					
Type		Staff Hrs.			
a. Routine					
b. Non-routine					
c. Travel					
d. Misc.		1:00			
e. Overtime					
15. Maintenance Comments REMOVED HALON 1301 CYLINDER I.A.W MOD NOTE 55					
Miscellaneous Information					
17. SPECIAL PURPOSE REPORTING		a. Mod. No. 55	b. Mod./Act./Deact.Dat 04/01/00	c.	d.
18. CONFIGURATION MGMT. REPORTING (use as directed)		ASN	Vendor Part Number (New Part)		Serial Number (Old Part)
				Serial Number (New Part)	
				e.	
				16. Initials DKR	